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NIKI MOTOHARU

(54) DOUBLE-OFFSET TYPE CONSTANT SPEED
UNIVERSAL JOINT

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(57) Abstract:

PURPOSE: To restrain generation of vibration by alternatively widening the three guide clearances in the circumferential direction at least one of the guide parts consisting of a cage and an external ring and of the cage and an internal ring so that the cage is slid and guided at three points.

CONSTITUTION: Pockets 22 are formed in the circumferentially arranged positions in a cage 17 and contain balls 16. The external face of the columnar part 23 of each of the pockets 22 is slid on and guided by the internal surface 11 of an external ring 10. Of the six columnar parts 23, three parts alternatively arranged are formed with the slightly shorter diameter so that the columnar parts 23 have the guide parts 24 and the small diameter parts 25 arranged alternatively. The number of the sliding contact parts between the cage 17 and the external ring 10 is changed from six to three, whereby greatly reducing the six-phase-composition of inductive thrust force. The generation of vibration may then be restrained.

